



Electronic Information Disclosure Statement

Modular assembly of antibody genes, antibodies prepared thereby and use

Application:



10/040945

Confirmation: 5282

Applicant(s): Randy Robinson

Docket

Number:

0610.0050001

Group Art

Unit:

Examiner:

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search string: (4338397 or 4642334 or 4656134 or 4816397 or 4816567 or 4935496 or 4963495 or 5576195 or 5595898 or 5618920 or 5648237 or 5693493 or 5698417 or 5698435 or 5846818 or 6204023 or 6331415).pn.


US Patent Documents

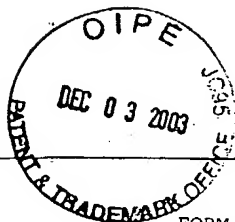
Note: Applicant is not required to submit a paper copy of cited US Patent Documents

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<input type="checkbox"/>	P02	4642334	1987-02-10		Moore et al.	530	388
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<input type="checkbox"/>	P04	4816397	1989-03-28		Boss et al.	435	68
<input type="checkbox"/>	P05	4816567	1989-03-28		Cabilly et al.	530	387
<input type="checkbox"/>	P06	4935496	1990-06-19		Kudo et al.	530	388
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<input checked="" type="checkbox"/>	P08	5576195	1996-11-19	<input checked="" type="checkbox"/>	Robinson et al.	435	69.8
<input type="checkbox"/>	P09	5595898	1997-01-21	<input type="checkbox"/>	Robinson et al.	435	172.3
<input type="checkbox"/>	P10	5618920	1997-04-08	<input type="checkbox"/>	Robinson et al.	530	387.1
<input type="checkbox"/>	P11	5648237	1997-07-15	<input type="checkbox"/>	Carter	435	69.1
<input type="checkbox"/>	P12	5693493	1997-12-02	<input type="checkbox"/>	Robinson et al.	435	69.1
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<input checked="" type="checkbox"/>	P16	6204023	2001-03-20	<input type="checkbox"/>	Robinson et al.	435	71.3
<input checked="" type="checkbox"/>	P17	6331415	2001-12-18	<input type="checkbox"/>	Cabilly et al.	435	69.6

Signature

Examiner Name	Date
	11/15/04

FORM PTO-1449
FIRST SUPPLEMENTAL
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0610.0050001APPLICATION NO.
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
DB	AL1	EP 0 048 970 A2	04/07/1982	Europe			Yes No
	AM1	EP 0 055 942 B1	07/14/1982	Europe			Yes No
	AN1	EP 0 088 994 B1	09/21/1983	Europe			Yes No
	AO1	WO 83/03971	11/24/1983	WIPO			Yes No
DB	AP1	EP 0 102 634 A1	03/14/1984	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	1	Abrahmsén, L. et al., "Secretion of heterologous gene products to the culture medium of Escherichia coli," Nucl. Acids Res. 14(18):7487-7500, Oxford University Press, Oxford, England (August 1986).
DB	AS	1	Alexander, A. et al., "γ heavy chain disease in man: cDNA sequence supports partial gene deletion model," Proc. Natl. Acad. Sci. USA 79:3260-3264, National Academy of Science of the USA, Washington, D.C. (1982).
DB	AT	1	Amster, O. et al., "Synthesis of part of a mouse immunoglobulin in light chain in a bacterial clone," Nucl. Acids Res. 8:2055-2065, Oxford University Press, Oxford, England (1980).

EXAMINER

Paul B. Bunt

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DB	AL2	EP 0 120 694 A2	10/03/1984	Europe			Yes No
	AM2	GB 2 137 631 A	10/10/1984	Great Britain			Yes No
	AN2	EP 0 125 023 A1	11/14/1984	Europe			Yes No
	AO2	EP 0 126 338 A1	11/28/1984	Europe			Yes No
DB	AP2	EP 0 133 321 A1	02/20/1985	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	2	Anand, N.N. et al., "Synthesis and expression in <i>Escherichia coli</i> of cistronic DNA encoding an antibody fragment specific for <i>Salmonella</i> serotype B-O-antigen," <i>Gene</i> 100:39-44, Elsevier Science Publishers B.V., Amsterdam, Netherlands (June 1991).
	AS	2	Anand, N.N. et al., "Bacterial Expression and Secretion of Various Single-chain Fv Genes Encoding Proteins Specific for a <i>Salmonella</i> Serotype B O-Antigen," <i>J. Biol. Chem.</i> 266(32):21874-21879, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (November 1991).
	AT	2	Axelsson, K., "Bacterial Lipopolysaccharides and Glutathione Mixed Disulfides as Possible Contaminants of Human Growth Hormone Produced with the Use of <i>E. coli</i> k12," <i>Acta Chemica Scandinavica Series B</i> 39:69-71, Munksgaard International Publishers, Copenhagen, Denmark (1985), Communication at the Meeting of the Swedish Biochemical Society in Stockholm Sweden, August 42-25th, 1984.

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David Blumenthal

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DB	AL3	JP 60-155132	08/15/1985	Japan			Yes X No
	AM3	EP 0 154 539 A2	09/11/1985	Europe			Yes No
	AN3	JP 61-47500	03/07/1986	Japan			Yes X No
	AO3	EP 0 171 496 A3	02/19/1986	Europe			Yes No
DB	AP3	EP 0 173 494 A3	03/05/1986	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	3	Banerji, J. et al., "A Lymphocyte-Specific Cellular Enhancer Is Located Downstream of the Joining Region in Immunoglobulin Heavy Chain Genes," Cell 33:729-740, Cell Press, Cambridge, MA (1983).
	AS	3	Barbas III, C.F. et al., "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site," Proc. Natl. Acad. Sci. USA 88(18):7978-7982, National Academy of Sciences of the USA, Washington, D.C. (September 1991).
SB	AT	3	Bebbington, C.R. et al., "High-Level Expression of A Recombinant Antibody From Myeloma Cells Using A Glutamine Synthetase Gene As An Amplifiable Selectable Marker," Bio/Technol. 10:169-175, Nature Publishing Co., New York (February 1992).

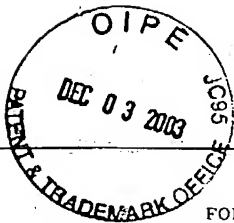
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Paul Bluhm

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DB	AL4	WO 86/01533	03/13/1986	WIPO			Yes No
	AM4	EP 0 184 187 A2	06/11/1986	Europe			Yes No
	AN4	EP 0 194 276 B1	09/17/1986	Europe			Yes No
	AO4	WO 86/05513	09/25/1986	WIPO			Yes No
DB	AP4	WO 86/05812	10/09/1986	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	4	Beckwith, J. and S.Ferro-Novick, "Genetic Studies on Protein Export in Bacteria," <i>Curr. Topics Microbiol. Immunol.</i> 125:5-27, Springer Verlag, Berlin, Germany (July 1986).
	AS	4	Beggs, J.D., "Multiple-copy Yeast Plasmid Vectors," <i>Mol. Genet. Yeast Benzon Symp.</i> 16:383-389, Munksgaard, Copenhagen, Denmark (1981).
DB	AT	4	Bernstein, K.E., et al., "Nucleotide Sequence of a Rabbit IgG Heavy Chain from the Recombinant F-I Haplotype," <i>Immunogenet.</i> 18(4):387-397, Springer-Verlag, Berlin, Germany (1983).

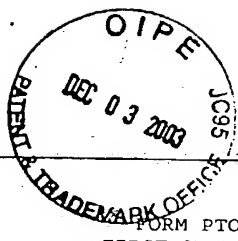
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Samuel Blumenthal

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DB	AL5	WO 87/02671	05/07/1987	WIPO			Yes No
	AM5	EP 0 234 592 A1	09/02/1987	Europe			Yes No
	AN5	JP 62-502586	10/08/1987	Japan			Yes X No
	AO5	JP 63-68087	03/26/1988	Japan			Yes X No
DB	AP5	EP 0 266 663	05/11/1988	Europe			Yes No

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DB	AR	5	Better, M. et al., "Escherichia coli Secretion of an Active Chimeric Antibody Fragment," Science 240:1041-1043, American Association for the Advancement of Science, Washington, D.C. (May 1988).
	AS	5	Better, M. and A.H. Horwitz, "Expression of Engineered Antibodies and Antibody Fragments in Microorganisms," Meth. Enzymol. 178:476-496, Academic Press Inc., New York, NY (November 1989).
	AT	5	Better, M. et al., "Production And Scale Up of Chimeric Fab Fragments From Bacteria," Advances in Gene Technology: The Molecular Biology of Immune Diseases and the Immune Response, Proc. Of the 1990 Miami Bio/Technol. Winter Symp. 10:105. IRL Press. New York (July 1990).

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Paul Blum

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DB	AL6	EP 0 278 355 A2	08/17/1988	Europe			Yes No
	AM6	WO 89/00999	02/09/1989	WIPO			Yes No
	AN6	WO 89/06283	07/13/1989	WIPO			Yes No
	AO6	EP 0 324 162 B1	07/19/1989	Europe			Yes X No
DB	AP6	WO 92/22324	12/23/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	6	Better, M. et al., "Potent anti-CD5 ricin A chain immunoconjugates from bacterially produced Fab' and F(ab') ₂ ," <i>Proc. Natl. Acad. Sci. USA</i> 90:457-461, National Academy of Sciences of the USA, Washington, D.C. (January 1993).
	AS	6	Better, M. and A.H. Horwitz, "In Vivo Expression of Correctly Folded Antibody Fragments from Microorganisms," Ch. 16, in: <i>Protein Folding - In Vivo and In Vitro</i> , Cleland, J.L., ed., Washington, D.C., American Chemical Society pp. 203-217 (April 1993).
DB	AT	6	Boss, M.A. et al., "Assembly of functional antibodies from immunoglobulin heavy and light chains synthesised in <i>E. coli</i> ," <i>Nucl. Acids Res.</i> 12(9):3791-3806, Oxford University Press, Oxford, England (May 1984).

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Paul Blumenthal

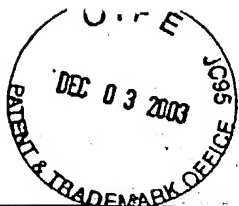
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	AO1				Yes No
	AP1				Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)					
DB	AR	2	Boulianne, G.L. et al., "Production of functional chimeric mouse/human antibody," Nature 312:643-646, Macmillan Publishers Ltd., London, England (December 1984).		
↓	AS	2	Briggs, M.S. and L.M. Gierasch, "Molecular Mechanisms of Protein Secretion: The Role of the Signal Sequence," Adv. Prot. Chem. 38:109-180, Academic Press, Inc., San Diego, CA (January 1986).		
↓	AT	2	Brown, N.A. et al., "Immunoglobulin J _H , C _H , and C _γ gene rearrangements in human B lymphocytes clonally transformed by Epstein-Barr virus," Proc. Natl. Acad. Sci. USA 82:556-560, National Academy of Sciences of the USA, Washington, D.C. (January 1985).		
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DB	AR	8	Cabilly, S. et al., "Generation of antibody activity from immunoglobulin polypeptide chains produced in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 81:3273-3277, National Academy of Sciences of the USA, Washington, D.C. (June 1984).
↓	AS	8	Calos, M.P. et al., "High mutation frequency in DNA transfected into mammalian cells," <i>Proc. Natl. Acad. Sci. USA</i> 80:3015-3019, National Academy of Sciences of the USA, Washington, D.C. (May 1983).
DB	AT	8	Carter, P. et al., "High level <i>Escherichia coli</i> Expression and Production of a Bivalent Humanized Antibody Fragment," <i>Bio/Technol.</i> 10:163-167, Nature Publishing Co., New York (February 1992).

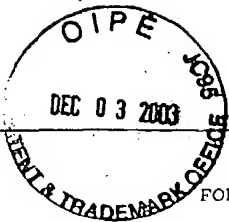
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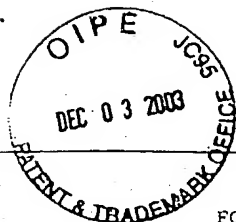
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DB	AR	2	Chan, S.J. et al., "Biosynthesis and periplasmic segregation of human proinsulin in Escherichia coli," Proc. Natl. Acad. Sci. USA 78(9):5401-5405, National Academy of Sciences of the USA, Washington, D.C. (1981).
↓	AS	2	Clackson, T. et al., "Making antibody fragments using phage display libraries," Nature 352:624-628, Macmillan Publishers Ltd., London, England (August 1991).
↓ DB	AT	2	Clontech Catalog, "Bacterial Strains" and "Numerical Index," pp. 224 and 277, respectively; Clontech Laboratories, Inc., Palo Alto, CA (July 1993).

EXAMINER <i>Tamara Blumenthal</i>	DATE CONSIDERED <i>11/5/04</i>
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	10	Denéfle, P. et al., "Heterologous protein export in <i>Escherichia coli</i> : influence of bacterial signal peptides on the export of human interleukin 1 β ," <i>Gene</i> 85:499-510, Elsevier Science Publishers B.V., Amsterdam, Netherlands (December 1989).
↓	AS	10	De Sutter, K. et al., "Production of functionally active murine and murine: human chimeric F(ab') ₂ fragments on COS-1 cells," <i>Gene</i> 113:223-230, Elsevier Science Publishers B.V., Amsterdam, Netherlands (April 1992).
DB	AT	10	Dickson, S., "Scientist Produce Chimeric Monoclonal Abs," <i>Genetic Engineering News</i> 5(3):1 and 33. Mary Ann Leibert, Inc., Publishers, Larchmont, NY (March 1985).

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Paul Phul

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DB	AR	11	Dolby, T.W. et al., "Cloning and partial nucleotide sequence of human immunoglobulin μ chain cDNA from B cells and mouse-human hybridomas," <i>Proc. Natl. Acad. Sci. USA</i> 77(10):6027-6031, National Academy of Sciences of the USA, Washington, D.C. (1980).
I	AS	11	Early, P and L. Hood, "Mouse Immunoglobulin Genes," in: <i>Genetic Engineering - Principles and Methods</i> , Volume 3, Setlow, J.K. and A. Hollander, eds., New York: Plenum Press pp.157-188 (1981).
DB	AT	11	Edelman, G.M. et al., "The Covalent Structure of an Entire γ G Immunoglobulin Molecule," <i>Proc. Natl. Acad. Sci. USA</i> 63(1):78-85, National Academy of Sciences of the USA, Washington, D.C. (1969).

EXAMINER <i>Samuel Blumenthal</i>	DATE CONSIDERED 11/15/04
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FORM PTO-1449

FIRST SUPPLEMENTAL
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0610.005000IAPPLICATION NO.
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	12	Edens, L. et al., "Cloning of cDNA encoding the sweet-tasting plant protein thaumatin and its expression in Escherichia coli," <i>Gene</i> 18:1-12, Elsevier Science Publishers B.V., Amsterdam, Netherlands (1982).
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↓ DB	AT	12	Ellison, J.W. et al., "The nucleotide sequence of a human immunoglobulin C γ_1 gene" <i>Nucl. Acids Res.</i> 10(13):4071-4079, Oxford University Press, Oxford, England (1982).

EXAMINER

David Bluhm

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	13	Ferenc, T. and T.J. Silhavy, "Sequence Information Required for Protein Translocation from the Cytoplasm," J. Bacteriol. 169(12):5339-5342, American Society for Microbiology, Baltimore, MD (December 1987).
↓	AS	13	Flamez, D. et al., "Production in Escherichia coli of a functional murine and murein: human chimeric F(ab'), fragment and mature antibody directed against human placental alkaline phosphatase," J. Biotechnol. 42:133-143, Elsevier Science Publishers, Amsterdam, Netherlands (September 1995).
↓ DB	AT	13	Fraser, T.H. and B.J. Bruce, "Chicken ovalbumin is synthesized and secreted by Escherichia coli," Proc. Natl. Acad. Sci. USA 75(12):5936-5940, National Academy of Sciences of the USA, Washington, D.C. (1978).

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David B. Huf

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DB	AR	14	Ghera, R. et al., eds., American Type Culture Collection - Catalogue of Bacteria and Phages, Seventeenth edition, p. 97, American Type Culture Collection, Rockville, MD (February 1989).
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Paul Bluh

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	15	Gillies, S.D. et al., "A Tissue-specific Transcription Enhancer Element Is Located in the Major Intron of a Rearranged Immunoglobulin Heavy Chain Gene," Cell 33:717-728, Cell Press, Cambridge, MA (1983).
J	AS	15	Gillies, S.D. and J.S. Wesolowski, "Antigen binding and biological activities of engineered mutant chimeric antibodies with human tumor specificities," Hum. Antibod. Hybridomas 1:47-54, Butterworth Heinemann Publishers, Stoneham, MA (January 1990).
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EXAMINER <i>Samuel B. B. B.</i>	DATE CONSIDERED <i>11/15/04</i>
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	AP						Yes No

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DB	AR	16	Hendershot, L. et al., "The role of immunoglobulin heavy chain binding protein in immunoglobulin transport," <i>Immunol. Today</i> 8:111-114, Elsevier Science Publishers, Barking, England (August 1987).
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EXAMINER

Samuel Blumenthal

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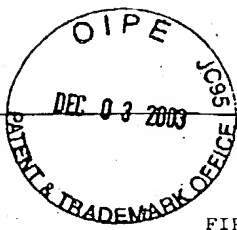
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	17	Holland, I.B., et al., "Secretion of Proteins From Bacteria," <i>Bio/Technol.</i> 4:427-431, Nature Publishing Co., New York (May 1986).
J	AS	17	Holland, I.B., "Secretion of Escherichia coli haemolysis," <i>Biochem. Soc. Trans.</i> 17(2):323-325, Portland Press On The Behalf Of The Biochemical Society, London, England (April 1989).
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EXAMINER <i>David Blument</i>	DATE CONSIDERED 11/15/04
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FORM PTQ-1449

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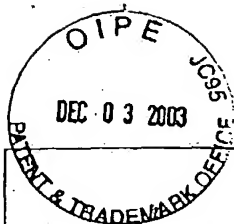
DB	AR	18	Hsiung, H.M. et al., "High-Level Expression, Efficient Secretion And Folding Of Human Growth Hormone In Escherichia coli," <i>Bio/Technol.</i> 4:991-995, Nature Publishing Co., New York (November 1986).
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	AM						Yes No
	AN						Yes No
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DB	AR	19	Itakura, K. et al., "Synthesis And Use Of Synthetic Oligonucleotides," Ann. Rev. Biochem. 53:323-356, Annual Reviews, Inc., Palo Alto, CA (January 1984).
↓	AS	19	Johnston, S. et al., "High-level expression of M13 gene II protein from an inducible polycistronic messenger RNA," Gene 34:137-145, Elsevier Science Publishers B.V., Amsterdam, Netherlands (January 1985).
↓ DB	AT	19	Jones, P.T. et al., "Replacing the complementarity-determining regions in a human antibody with those from a mouse," Nature 321:522-525, Macmillan Publishers Ltd., London, England (May 1986).

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Paul Blahut

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DB	AR	20	Kabat, E.A. et al., "Sequences Of Proteins Of Immunological Interest," U.S. Department of Health, Introduction, index, pp. 275-276, National Institute of Health, Bethesda, MD (1983).
J	AS	20	Kato, C. et al., "Construction of an excretion vector and extracellular production of human growth hormone from Escherichia coli," Gene 54:197-202, Elsevier Science Publishers B.A., Amsterdam, Netherlands (July 1987).
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EXAMINER *Samuel Blumenthal*DATE CONSIDERED *11/15/04*

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	AP						Yes No

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DB	AR	21	Kenten, J. et al., "Properties of a human immunoglobulin ϵ -chain fragment synthesized in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 81:2955-2959, National Academy of Sciences of the USA, Washington, D.C. (May 1984).
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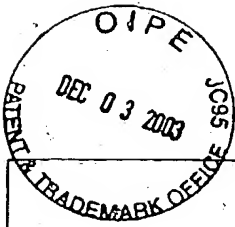
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DB	AR	22	Kniskern, P.J. et al., "Unusually high-level expression of a foreign gene (hepatitis B virus core antigen) in <i>Saccharomyces cerevisiae</i> ," <i>Gene</i> 46:135-141, Elsevier Science Publishers B.V., Amsterdam, Netherlands (December 1986).
↓	AS	22	Koshland, D. and D. Botstein, "Secretion of Beta-Lactamase Requires the Carboxy End of the Protein," <i>Cell</i> 20:749-760, Cell Press, Cambridge, MA (1980).
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	AP						Yes No

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DB	AR	23	Kurokawa, T. et al., "Expression of human immunoglobulin E ϵ chain cDNA in <i>E. coli</i> ," <i>Nucl. Acids Res.</i> 11(10):3077-3085, Oxford university Press, Oxford, England (1983).
I	AS	23	LaVallie, E.R. et al., "A Thioredoxin Gene Fusion Expression System That Circumvents Inclusion Body Formation in the <i>E. coli</i> Cytoplasm," <i>Bio/Technol.</i> 11:187-193, Nature Publishing Co., New York (February 1993).
DB	AT	23	Lei, S.-P. et al., "Cloning of the pectate lyase genes from <i>Erwinia carotovora</i> and their expression in <i>Escherichia coli</i> ," <i>Gene</i> 35:63-70, Elsevier Science Publishers B.V., Amsterdam, Netherlands (January 1985).

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DB	AR	24	Lei, S.-P. et al., "Characterization of the <i>Erwinia carotovora</i> pelB Gene and Its Product Pectate Lyase," <i>J. Bacteriol.</i> 169(9):4379-4383, American Society for Microbiology, Baltimore, MD (September 1987).
↓	AS	24	Lei, S.-P. et al., "Characterization of the <i>Erwinia carotovora</i> peh gene and its product polygalacturonase," <i>Gene</i> 117:119-124. Elsevier Science Publishers B.V., Amsterdam, Netherlands (August 1992).
↓ DB	AT	24	Li, P. et al., "Alteration of the amino terminus of the mature sequence of a periplasmic protein can severely affect protein export in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 85(20):7685-7689, National Academy of Sciences of the USA, Washington, D.C. (October 1988).

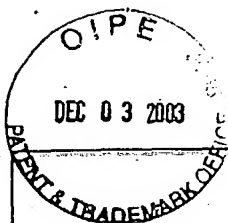
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Samuel Blechman

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DB	AR	25	Liu, F.-T. et al., "Expression of biologically active fragment of human IgE ϵ chain in Escherichia coli," <i>Proc. Natl. Acad. Sci. USA</i> 81:5369-5375, National Academy of Sciences of the USA, Washington, D.C. (September 1984).
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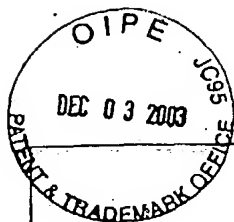
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Samuel Blumenthal

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	26	Liu, A.Y. et al., "Production Of A Mouse-Human Chimeric Monoclonal Antibody To CD20 With Potent Fc-Dependent Biologic Activity," <i>J. Immunol.</i> 139:3521-3526, American Association of Immunologists, Baltimore, MD (November 1987).
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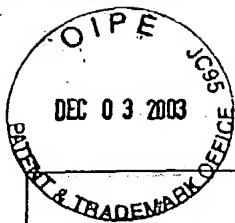
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Paul Blahut

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DB	AR	27	Mackenzie, C.R. et al., "Effect of C _A -C ₁ Domain Switching on Fab Activity and Yield in <i>Escherichia coli</i> : Synthesis and Expression of Genes Encoding Two Anti-Carbohydrate Fabs," <i>Bio/Technol.</i> 12:390-395, Nature Publishing Co., New York (April 1994).
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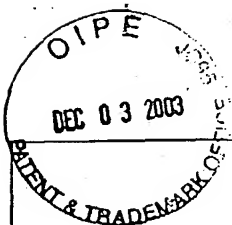
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DB	AR	28	Maniatis, T. et al., "Vectors That Express Cloned DNA in <i>Escherichia coli</i> ," Ch. 12, in: <i>Molecular Cloning: A Laboratory Manual</i> , Maniatis, T. et al., eds, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, pp. 403-433 (1982).
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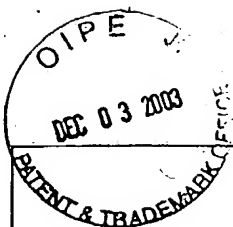
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Barnd Blument

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DB	AR	29	Max, E.E. et al., "Sequence of five potential recombination sites encoded close to an immunoglobulin κ constant region gene," <i>Proc. Natl. Acad. Sci. USA</i> 76(7):3450-3454, National Academy of Sciences of the USA, Washington, D.C. (1979).
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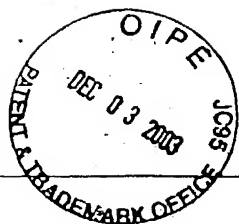
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DB	AR	30	Messing, J. et al., "A system for shotgun DNA sequencing," Nucl. Acids Res. 9(2):309-321, Oxford University Press, Oxford, England (1981).
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DB	AT	30	Morrison, S.L. et al., "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains," Proc. Natl. Acad. Sci. USA 81:6851-6855, National Academy of Sciences of the USA, Washington, D.C. (November 1984).

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Paul Bluhm

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DB	AR	31	Morrison, S.L., "Transfectomas Provide Novel Chimeric Antibodies," Science 229:1202-1207, American Association for the Advancement of Science, Washington, D.C. (September 1985).
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Paul Blahut

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	32	Mullinax, R.L. et al., "Identification of human antibody fragment clones specific for tetanus toxoid in a bacteriophage λ immunoeexpression library," Proc. Natl. Acad. Sci. USA 87:8095-8099, National Academy of Sciences of the USA, Washington, D.C. (October 1990).
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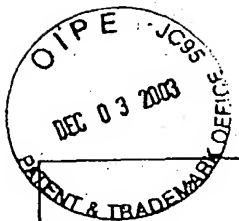
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Paul Bluhm

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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	33	Neuberger, M.S. et al., "Recombinant antibodies possessing novel effector functions," Nature 312:604-408, Macmillan Publishers Ltd., London, England (December 1984).
	AS	33	Neuberger, M.S. et al., "A hapten-specific chimeric IgE antibody with human physiological effector function," Nature 314:268-270, Macmillan Publishers Ltd., London, England (March 1985).
DB	AT	33	Nikaido, N. et al., "Cloning of a Pectate Lyase Gene from Erwinia cartovora and its Expression in Escherichia coli," J. Gen. Appl. Microbiol. 31(3):293-296, Microbiology Research Foundation, Tokyo, Japan (June 1985).

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David Bluhm

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	AN						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	34	Nikaido, N. <i>et al.</i> , "DNA Sequence of the promoter and NH ₂ -Terminal Regions of the Pectate Lyase Gene from <i>Erwinia carotovora</i> ," <i>J. Gen. Appl. Microbiol.</i> 31(6):573-576, Microbiology Research Foundation, Tokyo, Japan (December 1985).
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	AN						Yes No
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DB	AR	35	Ochi, A. et al., "Functional immunoglobulin M production after transfection of cloned immunoglobulin heavy and light chain genes into lymphoid cells," Proc. Natl. Acad. Sci. USA 80:6351-6355, National Academy of Sciences of the USA, Washington, D.C. (1983).
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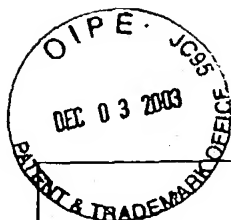
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Paul R. Rinaldi

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DB	AR	36	Oka, T. et al., "Synthesis and secretion of human epidermal growth factor by Escherichia coli," Proc. Natl. Acad. Sci. 82:7212-7216, National Academy of Sciences of the USA, Washington, D.C. (November 1985).
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EXAMINER

Paul Blum

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DB	AR	37	Pages, J.-M. et al., "Conditions Leading to Secretion of a Normally Periplasmic Protein in <i>Escherichia coli</i> ," <i>J. Bacteriology</i> . 169(4):1386-1390, American Society for Microbiology, Baltimore, MD (April 1987).
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DB	AT	37	Plückthun, A. and J.R. Knowles, "The Consequences of Stepwise Deletions from the Signal-processing Site of β -Lactamase," <i>J. Biol. Chem.</i> 262(9):3951-3957, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (March 1987).

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David Blumenthal

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	AR	38	Plückthun, A. and A. Skerra, "Expression of Functional Antibody F _v and Fab Fragments in Escherichia coli.," Meth. Enzymol. 178:497-515, Academic Press Inc., New York, NY (November 1989).
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	39	Proudfoot, K.A. et al., "Purification of Recombinant Chimeric B72.3 Fab' and F(ab), Using Streptococcal Protein G," <i>Protein Expr. Purif.</i> 3:368-373, Academic Press, Duluth, MN (October 1992).
↓	AS	39	Pugsley, A., "Applications of protein targeting," Ch IX, in: <i>Protein Targeting</i> , Pugsley, A. ed., New York: Academic Press, Inc. 229-240 (June 1989).
DB	AT	39	Pugsley, A., "Early stages in the secretory pathway," Ch. III, in: <i>Protein Targeting</i> , Pugsley, A. ed., New York: Academic Press, Inc. pp.45-111 and 241-267 (June 1989).

EXAMINER <i>Paul Blohel</i>	DATE CONSIDERED <i>11/15/04</i>
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	40	Queen, C. and D. Baltimore, "Immunoglobulin Gene Transcription Is Activated by Downstream Sequence Elements," Cell 33(3):741-748, Cell Press, Cambridge, MA (1983).
↓	AS	40	Ravetch, J.V. et al., "Structure of the Human Immunoglobulin μ Locus: Characterization of Embryonic and Rearranged J and D Genes," Cell 27:583-591, Cell Press, Cambridge, MA (1981).
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EXAMINER <i>Carol Blumel</i>	DATE CONSIDERED 11/15/04
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	41	Rodrigues, M.L. et al., "Engineering Fab' Fragments for Efficient F(ab) ₂ Formation in <i>Escherichia coli</i> and for Improved In Vivo Stability," <i>J. Immunol.</i> 151(12):6954-6961, American Association of Immunologists, Baltimore, MD (December 1993).
J	AS	41	Rosenwasser, T.A. et al., "Compartmentalization of Mammalian Proteins Produced in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 265(22):13066-13073, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (August 1990).
DB	AT	41	Sahagan, B.G. et al., "A Genetically Engineered Murine/Human Chimeric Antibody Retains Specificity For Human Tumor-Associated Antigen," <i>J. Immunol.</i> 137(3):1066-1074, American Association of Immunologists, Baltimore, MD (August 1986).

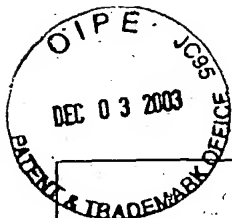
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Samuel Blumenthal

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	42	Sakano, H. et al., "Sequences at the somatic recombination sites of immunoglobulin light-chain genes," Nature 280:288-294, Macmillan Publishers Ltd., London, England (1979).
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	AT	42	Schein, C.H., "Production Of Soluble Recombinant Proteins In Bacteria," Bio/Technol. 7:1141-1148, Nature Publishing Co., New York, NY (November 1989).

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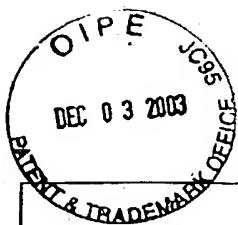
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	AM						Yes No
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DB	AR	43	Schoner, B.E. et al., "Translation of a synthetic two-cistron mRNA in Escherichia coli," Proc. Natl. Acad. Sci. USA 82(22):8506-8510, National Academy of Sciences of the USA, Washington, D.C. (November 1986).
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DB	AT	43	Sharon, J. et al., "Expression of a V _H C _K chimeric protein in mouse myeloma cells," Nature 309:364-367, Macmillan Publishers Ltd., London, England (May 1984).

EXAMINER <i>Paul Blum</i>	DATE CONSIDERED <i>11/15/04</i>
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	44	Sharon, J. et al., "Expression of a V _H C _K chimeric protein in mouse myeloma cells," Chem. Abst. 101(7):147 Abstr. 49464x, Chemical Abstracts Services, Columbus, OH (August 1984).
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DB	AT	44	Sjöström, M. et al., "Signal peptide amino acid sequences in <i>Escherichia coli</i> contain information related to final protein localization. A multivariate data analysis," EMBO J. 6(3):823-831, IRL Press Limited, Oxford, England (March 1987).

EXAMINER <i>Paul Bluhm</i>	DATE CONSIDERED 11/15/04
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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	45	Skerra, A. and A. Plückthun, "Assembly of a Functional Immunoglobulin F ₁ Fragment in <i>Escherichia coli</i> ," Science 240:1038-1041, American Association for the Advancement of Science, Washington, D.C. (May 1988).
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DB	AT	45	Stader, J.A. and T.J. Silhavy, "Engineering <i>Escherichia coli</i> to Secrete Heterologous Gene Products," Meth. Enzymol. 185:166-187, Academic Press Inc., New York, NY (May 1990).

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	AM						Yes No
	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	46	Studnicka, G.M. et al., "Human-engineered monoclonal antibodies retain full specific binding activity by preserving non-CDR complementarity-modulating residues," <i>Prot. Engin.</i> 7(6):805-814, Oxford University Press, Oxford, England (June 1994).
↓	AS	46	Sun, L.K. et al., "Chimeric Antibodies with 17-1A-Derived Variable and Human Constant Regions," <i>Hybridoma</i> 5(Suppl. 1):S17-S20, Mary Ann Liebert, Inc., Publishers, New York, NY (February 1986).
DB	AT	46	Sun, L.K. et al., "Chimeric antibody with human constant regions and mouse variable regions directed against carcinoma-associated antigen 17A-1A," <i>Proc. Natl. Acad. Sci. USA</i> 84:214-218, National Academy of Sciences of the USA, Washington, D.C. (January 1987).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	47	Takahara, M. et al., "Secretion Of Human Superoxide Dismutase in <i>Escherichia coli</i> ," <i>Bio/Technol.</i> 6:195-198, Nature Publishing Co., New York (February 1988).
↓	AS	47	Takahara, M. et al., "Structure of Human Immunoglobulin Gamma Genes: Implications for Evolution of a Gene Family," <i>Cell</i> 29:671-679, Cell Press, Cambridge, MA (1982).
↓ DB	AT	47	Takahara, M. et al., "A DNA sequence for gene expression and protein secretion, and its cloning from pectic acid lyase operon of <i>Erwinia</i> ," <i>Chem. Abstr.</i> 110:187 Abstr. No. 52329y, Chemical Abstracts Service, Columbus, OH (August 1989).

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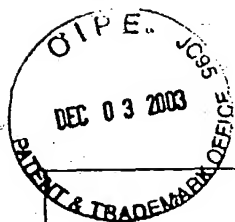
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	AM						Yes No
	AN						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	48	Takeda, S. et al., "Construction of chimaeric processed immunoglobulin genes containing mouse variable and human constant region sequences," Nature 314:452-454, Macmillan Publishers Ltd., London, England (April 1985)
↓	AS	48	Tan, L.K. et al., "A Human-Mouse Chimeric Immunoglobulin Gene With A Human Variable Region Is Expressed In Mouse Myeloma Cells," J. Immunol. 135(5):3564-3567, American Association of Immunologists, Baltimore, MD (November 1985).
↓ DB	AT	48	Tsujimoto, Y. and C.M. Croce, "Molecular cloning of a human immunoglobulin λ chain variable sequence," Nucl. Acids Res. 12(22):8407-8414, Oxford University Press, Oxford, England (November 1984).

EXAMINER <i>David Blahut</i>	DATE CONSIDERED 11/15/04
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	49	Van Brunt, J., "There's Nothing (Quite) Like the Real Thing," <i>Bio/Technol.</i> 4:835 and 839, Nature Publishing Co., New York (October 1986).
I	AS	49	Walter, G. et al., "Antibodies specific for the carboxy- and amino-terminal regions of simian virus 40 large tumor antigen," <i>Proc. Natl. Acad. Sci. USA</i> 77:5197-5200, National Academy of Sciences of the USA, Washington, D.C. (1980).
DB	AT	49	Ward, E.S. et al., "Binding activities of a repertoire of single immunoglobulin variable domains secreted from <i>Escherichia coli</i> ," <i>Nature</i> 341:544-546, Macmillan Publishers LTD., London, England (October 1989).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	50	Ward, E.S., "Expression and Purification of Antibody Fragments Using <i>Escherichia coli</i> as a Host," Ch. 6, in: <i>Antibody engineering - A Practical Guide</i> , Borrebaeck, C.A.K., ed., New York: W.H. Freeman and Co. pp.121-137 (July 1991).
↓	AS	50	Ward, V.K. et al., "Cloning, sequencing and expression of the Fab fragment of a monoclonal antibody to the herbicide atrazine," <i>Prot. Engin.</i> 6(8):981-988, Oxford University Press, Oxford, England (November 1993).
↓ DB	AT	50	Watson, M.E.E., "Compilation of published signal sequences," <i>Nucl. Acids Res.</i> 12(13):5145-5164, Oxford University Press, Oxford, England (July 1984).

EXAMINER

Ronald Bluhm

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	51	Weidle, U.H. et al., "Reconstitution of functionally active antibody directed against creatine kinase from separately expressed heavy and light chains in non-lymphoid cells," <i>Gene</i> 51:21-29, Elsevier Science Publishers B.V., Amsterdam, Netherlands (March 1987).
↓	AS	51	Wetzel, R., "Active immunoglobulin fragments synthesized in <i>E. coli</i> - from Fab to Scantibodies," <i>Prot. Engin.</i> 2(3):169-170, Oxford University Publishers, Oxford, England (September 1988).
↓ DB	AT	51	Williams, G.T. and M.S. Neuberger, "Production of antibody-tagged enzymes by myeloma cells: application to DNA polymerase I Klenow fragment," <i>Gene</i> 43:319-324, Elsevier Science Publishers B.V., Amsterdam, Netherlands (August 1986).

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DB	AR	52	Wood, D.L. and C. Coleclough, "Different joining region J elements of the murine κ immunoglobulin light chain locus are used at markedly different frequencies," Proc. Natl. Acad. Sci. USA 81(15):4756-4760, National Academy of Sciences of the USA, Washington, D.C. (August 1984).
	AS	52	Wood, C.R. et al., "The synthesis and in vivo assembly of functional antibodies in yeast," Nature 314:446-449, Macmillan Publishers Ltd., London, England (April 1985).
DB	AT	52	Zapata, G. et al., "Engineering linear F(ab'), fragments for efficient production in Escherichia coli and enhanced antiproliferative activity," Prot. Engin. 8(10):1057-1062, Oxford University Press, Oxford, England (October 1995).

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	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	53	Zemel-Dreassen, O. and A. Zamir, "Secretion and processing of an immunoglobulin light chain in <i>Escherichia coli</i> ," <i>Gene</i> 27:315-322, Elsevier Science Publishers B.V., Amsterdam, Netherlands (March 1984).
↓	AS	53	Appendix A to Patentee's [Celltech Therapeutics Limited] Letter of 8 th of May 1996, filed in reply to oppositions against European Patent No. 0 120 694.
↓ DB	AT	53	Dialog World Patent Index File 351 English Language Abstract for JP 60-155132 (Document No AL3).

EXAMINER

Samuel Bluhm

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11/15/04

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FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0610.0050001APPLICATION NO.
10/040,945APPLICANT
ROBINSON et al.FILING DATE
January 9, 2002GROUP
1642

U.S. PATENT DOCUMENTS

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	54	Dialog World Patent Index File 351 English Language Abstract for JP 61-47500 (Document No AN3).
I	AS	54	Dialog World Patent Index File 351 English Language Abstract for JP 62-502586 (Document No AN5).
DB	AT	54	Dialog World Patent Index File 351 English Language Abstract for JP 63-068087 (Document No AO5).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	55	Dialog World Patent Index File 351 English Language Abstract for EP 0 324 162 (Document No A06).
DB	AS	55	Co-pending U.S. Application No. 09/722,425, filed, November 28, 2000.
	AT		

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